Alan P Marscher

List of Publications by Year
in descending order

112	14,658	34076	29127
papers	citations	52 h-index	104 g-index

113	113	113	4748
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L1.	3.0	2,264
2	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. Astrophysical Journal Letters, 2019, 875, L6.	3.0	897
3	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. Astrophysical Journal Letters, 2019, 875, L5.	3.0	814
4	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L4.	3.0	806
5	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. Astrophysical Journal Letters, 2019, 875, L2.	3.0	618
6	First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way. Astrophysical Journal Letters, 2022, 930, L12.	3.0	568
7	Polarimetric Observations of 15 Active Galactic Nuclei at High Frequencies: Jet Kinematics from Bimonthly Monitoring with the Very Long Baseline Array. Astronomical Journal, 2005, 130, 1418-1465.	1.9	565
8	The inner jet of an active galactic nucleus as revealed by a radio-to-Î³-ray outburst. Nature, 2008, 452, 966-969.	13.7	553
9	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. Astrophysical Journal Letters, 2019, 875, L3.	3.0	519
10	TURBULENT, EXTREME MULTI-ZONE MODEL FOR SIMULATING FLUX AND POLARIZATION VARIABILITY IN BLAZARS. Astrophysical Journal, 2014, 780, 87.	1.6	357
11	PROBING THE INNER JET OF THE QUASAR PKS 1510â€“089 WITH MULTI-WAVEBAND MONITORING DURING STRONG GAMMA-RAY ACTIVITY. Astrophysical Journal Letters, 2010, 710, L126-L131.	3.0	353
12	Multiepoch Very Long Baseline Array Observations of EGRETâ€detected Quasars and BL Lacertae Objects: Superluminal Motion of Gammaâ€Ray Bright Blazars. Astrophysical Journal, Supplement Series, 2001, 134, 181-240.	3.0	321
13	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. Astrophysical Journal Letters, 2021, 910, L13.	3.0	297
14	Observational evidence for the accretion-disk origin for a radio jet in an active galaxy. Nature, 2002, 417, 625-627.	13.7	257
15	Kinematics of Parsec-scale Jets of Gamma-Ray Blazars at 43 GHz within the VLBA-BU-BLAZAR Program. Astrophysical Journal, 2017, 846, 98.	1.6	230
16	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. Astrophysical Journal Letters, 2021, 910, L12.	3.0	215
17	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. Astrophysical Journal Letters, 2022, 930, L17.	3.0	215
18	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. Astrophysical Journal Letters, 2022, 930, L16.	3.0	187

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19	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. Astrophysical Journal, Supplement Series, 2019, 243, 26.	3.0	175
20	LOCATION OF Î³-RAY FLARE EMISSION IN THE JET OF THE BL LACERTAE OBJECT OJ287 MORE THAN 14 pc FROM THE CENTRAL ENGINE. Astrophysical Journal Letters, 2011, 726, L13.	3.0	171
21	FLARING BEHAVIOR OF THE QUASAR 3C 454.3 ACROSS THE ELECTROMAGNETIC SPECTRUM. Astrophysical Journal, 2010, 715, 362-384.	1.6	166
22	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. Astrophysical Journal Letters, 2022, 930, L14.	3.0	163
23	Multiepoch Very Long Baseline Array Observations of EGRETâ€detected Quasars and BL Lacertae Objects: Connection between Superluminal Ejections and Gammaâ€Ray Flares in Blazars. Astrophysical Journal, 2001, 556, 738-748.	1.6	159
24	Correlated Multiâ€“Wave Band Variability in the Blazar 3C 279 from 1996 to 2007. Astrophysical Journal, 2008, 689, 79-94.	1.6	149
25	The gasdynamics of compact relativistic jets. Astrophysical Journal, 1988, 334, 539.	1.6	147
26	Synchrotron Selfâ€Compton Model for Rapid Nonthermal Flares in Blazars with Frequencyâ€dependent Time Lags. Astrophysical Journal, 2004, 613, 725-746.	1.6	143
27	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. Astrophysical Journal Letters, 2022, 930, L13.	3.0	142
28	A TIGHT CONNECTION BETWEEN GAMMA-RAY OUTBURSTS AND PARSEC-SCALE JET ACTIVITY IN THE QUASAR 3C 454.3. Astrophysical Journal, 2013, 773, 147.	1.6	141
29	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. Astrophysical Journal Letters, 2022, 930, L15.	3.0	137
30	Imaging X-ray Polarimetry Explorer: prelaunch. Journal of Astronomical Telescopes, Instruments, and Systems, 2022, 8, .	1.0	132
31	Multiwaveband Polarimetric Observations of 15 Active Galactic Nuclei at High Frequencies: Correlated Polarization Behavior. Astronomical Journal, 2007, 134, 799-824.	1.9	131
32	Jet Stability and the Generation of Superluminal and Stationary Components. Astrophysical Journal, 2001, 549, L183-L186.	1.6	116
33	PROBING THE INNERMOST REGIONS OF AGN JETS AND THEIR MAGNETIC FIELDS WITH RADIOASTRON. I. IMAGING BL LACERTAE AT 21 Î¼as RESOLUTION. Astrophysical Journal, 2016, 817, 96.	1.6	114
34	ON THE LOCATION OF THE Î³-RAY OUTBURST EMISSION IN THE BL LACERTAE OBJECT AO 0235+164 THROUGH OBSERVATIONS ACROSS THE ELECTROMAGNETIC SPECTRUM. Astrophysical Journal Letters, 2011, 735, L10.	3.0	109
35	DISKâ€“JET CONNECTION IN THE RADIO GALAXY 3C 120. Astrophysical Journal, 2009, 704, 1689-1703.	1.6	101
36	Statistical Effects of Doppler Beaming and Malmquist Bias on Fluxâ€limited Samples of Compact Radio Sources. Astrophysical Journal, 1997, 476, 572-588.	1.6	94

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37	CONNECTION BETWEEN THE ACCRETION DISK AND JET IN THE RADIO GALAXY 3C 111. Astrophysical Journal, 2011, 734, 43.	1.6	92
38	Monthly 43 GH[CLC]z[/CLC] VLBA Polarimetric Monitoring of 3C 120 over 16 Epochs: Evidence for Trailing Shocks in a Relativistic Jet. Astrophysical Journal, 2001, 561, L161-L164.	1.6	80
39	MULTIWAVELENGTH VARIATIONS OF 3C 454.3 DURING THE 2010 NOVEMBER TO 2011 JANUARY OUTBURST. Astrophysical Journal, 2012, 758, 72.	1.6	75
40	AN X-RAY VIEW OF THE JET CYCLE IN THE RADIO-LOUD AGN 3C120. Astrophysical Journal, 2013, 772, 83.	1.6	74
41	Faraday Rotation and Polarization Gradients in the Jet of 3C 120: Interaction with the External Medium and a Helical Magnetic Field?. Astrophysical Journal, 2008, 681, L69-L72.	1.6	72
42	ERRATIC JET WOBBLING IN THE BL LACERTAE OBJECT OJ287 REVEALED BY SIXTEEN YEARS OF 7 mm VLBA OBSERVATIONS. Astrophysical Journal, 2012, 747, 63.	1.6	69
43	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. Astrophysical Journal Letters, 2021, 910, L14.	3.0	67
44	External Compton Radiation from Rapid Nonthermal Flares in Blazars. Astrophysical Journal, 2005, 629, 52-60.	1.6	65
45	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. Nature Astronomy, 2021, 5, 1017-1028.	4.2	65
46	The VLBA-BU-BLAZAR Multi-Wavelength Monitoring Program. Galaxies, 2016, 4, 47.	1.1	58
47	Highâ€Frequency VLBA Total and Polarized Intensity Images of Gammaâ€Ray Bright Blazars. Astrophysical Journal, 2002, 577, 85-97.	1.6	56
48	Rapid Multiwaveband Polarization Variability in the Quasar PKS 0420-014: Optical Emission from the Compact Radio Jet. Astrophysical Journal, 2007, 659, L107-L110.	1.6	56
49	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2021, 911, L11.	3.0	56
50	THROUGH THE RING OF FIRE:Î³-RAY VARIABILITY IN BLAZARS BY A MOVING PLASMOID PASSING A LOCAL SOURCE OF SEED PHOTONS. Astrophysical Journal, 2015, 804, 111.	1.6	54
51	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. Astronomy and Astrophysics, 2020, 640, A69.	2.1	54
52	Change in Speed and Direction of the Jet near the Core in the Quasar 3C 279. Astronomical Journal, 2004, 127, 3115-3120.	1.9	53
53	ON THE SOURCE OF FARADAY ROTATION IN THE JET OF THE RADIO GALAXY 3C 120. Astrophysical Journal, 2011, 733, 11.	1.6	53
54	A MULTI-WAVELENGTH POLARIMETRIC STUDY OF THE BLAZAR CTA 102 DURING A GAMMA-RAY FLARE IN 2012. Astrophysical Journal, 2015, 813, 51.	1.6	51

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55	Monitoring the Morphology of M87* in 2009â€“2017 with the Event Horizon Telescope. Astrophysical Journal, 2020, 901, 67.	1.6	51
56	THE MEGAPARSEC-SCALE X-RAY JET OF THE BL Lac OBJECT OJ287. Astrophysical Journal, 2011, 729, 26.	1.6	47
57	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. Astrophysical Journal, 2020, 897, 139.	1.6	47
58	SYNCHRONOUS OPTICAL AND RADIO POLARIZATION VARIABILITY IN THE BLAZAR OJ287. Astrophysical Journal, 2009, 697, 985-995.	1.6	46
59	Verification of Radiative Transfer Schemes for the EHT. Astrophysical Journal, 2020, 897, 148.	1.6	44
60	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. Astrophysical Journal, 2021, 912, 35.	1.6	43
61	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2022, 930, L19.	3.0	43
62	The Highly Relativistic Kiloparsecâ€Scale Jet of the Gammaâ€Ray Quasar 0827+243. Astrophysical Journal, 2004, 614, 615-625.	1.6	42
63	Kinematics of Parsec-scale Jets of Gamma-Ray Blazars at 43 GHz during 10 yr of the VLBA-BU-BLAZAR Program. Astrophysical Journal, Supplement Series, 2022, 260, 12.	3.0	40
64	THE CONNECTION BETWEEN THE RADIO JET AND THE GAMMA-RAY EMISSION IN THE RADIO GALAXY 3C 120. Astrophysical Journal, 2015, 808, 162.	1.6	38
65	COMPREHENSIVE MONITORING OF GAMMA-RAY BRIGHT BLAZARS. I. STATISTICAL STUDY OF OPTICAL, X-RAY, AND GAMMA-RAY SPECTRAL SLOPES. Astrophysical Journal, 2014, 789, 135.	1.6	36
66	FINE-SCALE STRUCTURE OF THE QUASAR 3C 279 MEASURED WITH 1.3 mm VERY LONG BASELINE INTERFEROMETRY. Astrophysical Journal, 2013, 772, 13.	1.6	30
67	ERRATIC FLARING OF BL LAC IN 2012â€“2013: MULTIWAVELENGTH OBSERVATIONS. Astrophysical Journal, 2016, 816, 53.	1.6	30
68	Simultaneous X-ray and IR variability in the quasar 3C 273. Monthly Notices of the Royal Astronomical Society, 1999, 310, 571-576.	1.6	28
69	Variability of Blazars and Blazar Models over 38 Years. Galaxies, 2016, 4, 37.	1.1	27
70	â€œOrphanâ€•Î³-Ray Flares and Stationary Sheaths of Blazar Jets. Astrophysical Journal, 2017, 850, 87.	1.6	24
71	Multiwaveband Observations of Quasars with Flat Radio Spectra and Strong Millimeterâ€Wave Emission. Astrophysical Journal, Supplement Series, 1999, 122, 1-27.	3.0	23
72	MULTIWAVELENGTH VARIABILITY OF THE BROAD LINE RADIO GALAXY 3C 120. Astrophysical Journal, 2009, 696, 601-607.	1.6	23

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73	Frequency and Time Dependence of Linear Polarization in Turbulent Jets of Blazars. Galaxies, 2021, 9, 27.	1.1	23
74	Modeling the Time-Dependent Polarization of Blazars. Galaxies, 2017, 5, 63.	1.1	21
75	The magnetic field structure in CTA 102 from high-resolution mm-VLBI observations during the flaring state in 2016â€“2017. Astronomy and Astrophysics, 2019, 622, A158.	2.1	21
76	Selective Dynamical Imaging of Interferometric Data. Astrophysical Journal Letters, 2022, 930, L18.	3.0	21
77	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. Astrophysical Journal Letters, 2022, 930, L21.	3.0	20
78	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. Astrophysical Journal Letters, 2022, 930, L20.	3.0	20
79	The connection between the parsec-scale radio jet and Î³-ray flares in the blazar 1156+295. Monthly Notices of the Royal Astronomical Society, 2014, 445, 1636-1646.	1.6	18
80	Faraday Conversion in Turbulent Blazar Jets. Astrophysical Journal, 2018, 862, 58.	1.6	17
81	The 2016 June Optical and Gamma-Ray Outburst and Optical Microvariability of the Blazar 3C 454.3. Astrophysical Journal, 2019, 875, 15.	1.6	15
82	Multiwavelength Variability Power Spectrum Analysis of the Blazars 3C 279 and PKS 1510â€“089 on Multiple Timescales. Astrophysical Journal, 2022, 927, 214.	1.6	14
83	3 mm GMVA Observations of Total and Polarized Emission from Blazar and Radio Galaxy Core Regions. Galaxies, 2017, 5, 67.	1.1	12
84	Unraveling the Innermost Jet Structure of OJ 287 with the First GMVA + ALMA Observations. Astrophysical Journal, 2022, 932, 72.	1.6	12
85	A Multi-band Study of the Remarkable Jet in Quasar 4C+19.44. Astrophysical Journal, 2017, 846, 119.	1.6	11
86	Polarization Vector Rotations: Real, Spurious, Hidden and Imaginary. Galaxies, 2016, 4, 43.	1.1	10
87	X-Ray, UV, and Radio Timing Observations of the Radio Galaxy 3C 120. Astrophysical Journal, 2018, 867, 128.	1.6	10
88	Optical Emission and Particle Acceleration in a Quasi-stationary Component in the Jet of OJ 287. Astrophysical Journal, 2018, 864, 67.	1.6	8
89	Theoretical Study of the Effects of Magnetic Field Geometry on the High-Energy Emission of Blazars. Galaxies, 2016, 4, 45.	1.1	7
90	Behaviour of the Blazar CTA 102 during Two Giant Outbursts. Galaxies, 2017, 5, 91.	1.1	7

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91	A Detailed Kinematic Study of 3C 84 and Its Connection to Î³-Rays. Astrophysical Journal, 2021, 914, 43.	1.6	7
92	The Gamma-ray Activity of the high-z Quasar 0836+71. EPJ Web of Conferences, 2013, 61, 04003.	0.1	6
93	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. Astrophysical Journal, 2022, 925, 13.	1.6	6
94	Radio and Î³-Ray Activity in the Jet of the Blazar S5 0716+714. Astrophysical Journal, 2022, 925, 64.	1.6	6
95	Examining the synchrotron self-Compton model for blazars. , 1993, , .		5
96	Multi-Frequency Monitoring of the Flat Spectrum Radio Quasar PKS 1222+216 in 2008â€“2015. Galaxies, 2016, 4, 72.	1.1	5
97	Exploring the Magnetic Field Configuration in BL Lac Using GMVA. Galaxies, 2016, 4, 32.	1.1	3
98	The Connection between the Radio Jet and the Î³-ray Emission in the Radio Galaxy 3C 120 and the Blazar CTA 102. Galaxies, 2016, 4, 34.	1.1	3
99	Correlation Analysis of Delays between Variations of Gamma-Ray and Optical Light Curves of Blazars. Galaxies, 2016, 4, 64.	1.1	3
100	The jet of the quasar 4C+21.35 from parsec to kiloparces scales and its role in high energy photon production. Proceedings of the International Astronomical Union, 2014, 10, 33-38.	0.0	2
101	Optical Outburst of the Blazar S4 0954+658 in Early 2015. Galaxies, 2016, 4, 24.	1.1	2
102	Emission-line Variability during a Nonthermal Outburst in the Gamma-Ray Bright Quasar 1156+295. Astrophysical Journal, 2022, 926, 180.	1.6	2
103	Nonthermal gamma-ray emission from blazars. AIP Conference Proceedings, 1994, , .	0.3	1
104	The Conference Blazars through Sharp Multi-Wavelength Eyes. Galaxies, 2016, 4, 21.	1.1	1
105	Impact of Ordered and Disordered Magnetic Fields on Multiwavelength Emission of Blazars. Astrophysical Journal, 2020, 898, 11.	1.6	1
106	5 Years of VLBI and X-Ray Observations of NRAO 140. Symposium - International Astronomical Union, 1988, 129, 35-36.	0.1	0
107	Excess X-ray absorption toward Giga-Hertz peaked radio sources. AIP Conference Proceedings, 1994, , .	0.3	0
108	X-ray variability of the Quasar 4C 39.25 and Bent Relativistic Jets. AIP Conference Proceedings, 1994, , .	0.3	0

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109	Contemporaneous Multiwaveband Observations of Blazars. Symposium - International Astronomical Union, 1994, 159, 155-158.	0.1	0
110	Probing the AU-Scale Structure of Molecular Clouds. International Astronomical Union Colloquium, 1994, 140, 264-265.	0.1	0
111	The Blazar Paradigm: Synchro-Compton Emission from Relativistic Jets. International Astronomical Union Colloquium, 1998, 164, 25-32.	0.1	0
112	Statistical Effects of Doppler Beaming and Malmquist Bias on Flux-Limited Samples of Compact Radio Sources. International Astronomical Union Colloquium, 1998, 164, 137-138.	0.1	0